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IS 5944 (1971): Accessories for Use in Shuttles for Jute Looms [TXD 14: Machinery for Fabric Manufacture]

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Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR ACCESSORIES FOR USE IN SHUTTLES FOR JUTE LOOMS

1. Scope — Prescribes requirements of accessories, such as offset tip, cover, cover lock, drag spring, pin and bristles.

2. Requirements

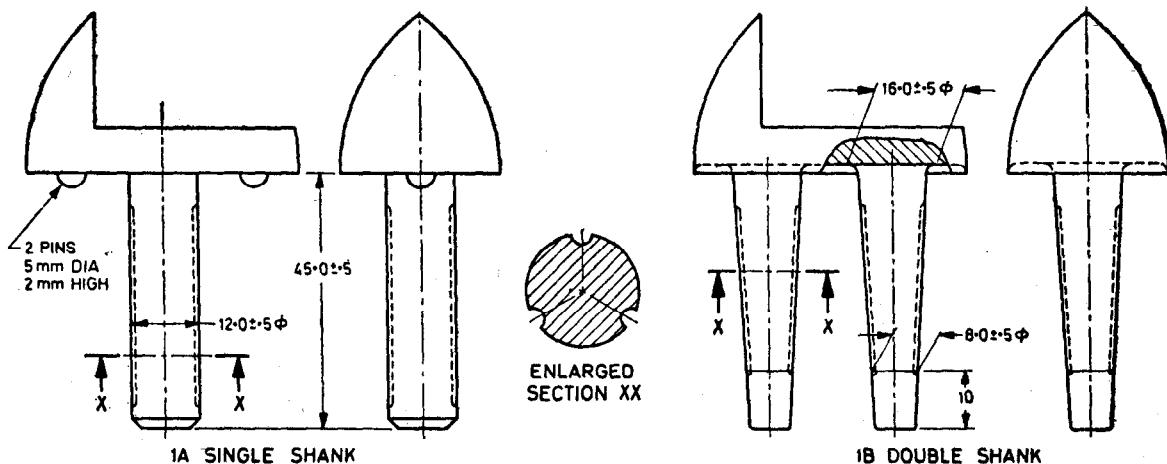
2.1 Offset Tip — Should be either single or double shank.

2.1.1 Material

2.1.1.1 Single shank — Low carbon steel.

2.1.1.2 Double shank — Malleable cast iron with hardness at flat and conical portion from 110 to 125 HRB. The shanks should be softer than the rest of the portion.

2.1.2 Shape and Dimension — The dimensions of the offset tip of a typical pattern shall conform to the applicable requirements given in Fig. 1.



All dimensions in millimetres.

FIG. 1 OFFSET SHUTTLE TIP

2.2 Cover

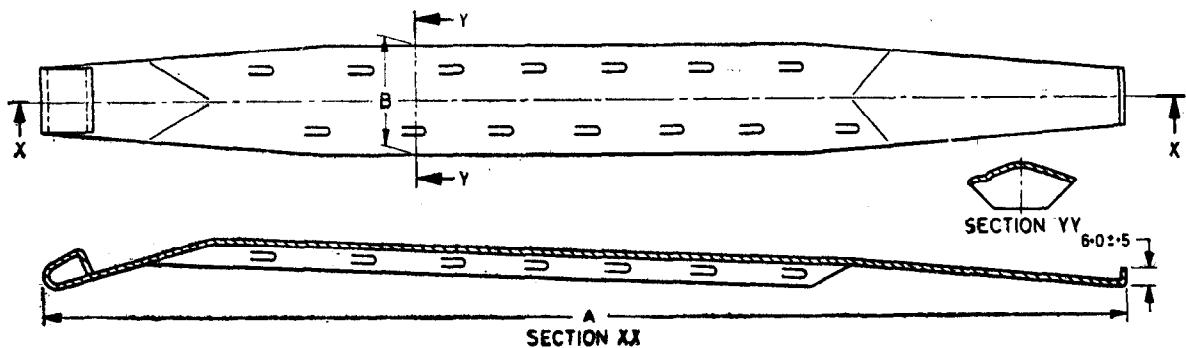
2.2.1 Material — Hot-rolled spring steel of 17 SWG case hardened at both ends up to approximately 10 cm from either end and having hardness between 40 to 50 HRC.

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2.2.2 Shape and Dimension — The dimensions of the cover of shuttle of a typical pattern shall conform to the applicable requirements given in Fig. 2.



All dimensions in millimetres.

	Length	Width
	A	B
	381	38
	406	38
	432	38
	457	38
Tolerance	± 2.0	± 1.0

FIG. 2 SHUTTLE COVER

2.3 Cover Lock

2.3.1 Material — Spring steel of 16 SWG.

2.3.2 Shape — A typical type of cover lock is shown in Fig. 3.

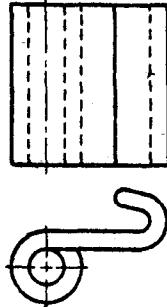


FIG. 3 COVER LOCK

2.4 Drag Spring

2.4.1 Material — Spring steel of 28 SWG having hardness between 38 to 40 HRC.

2.4.2 Shape — A typical type of drag spring is shown in Fig. 4.

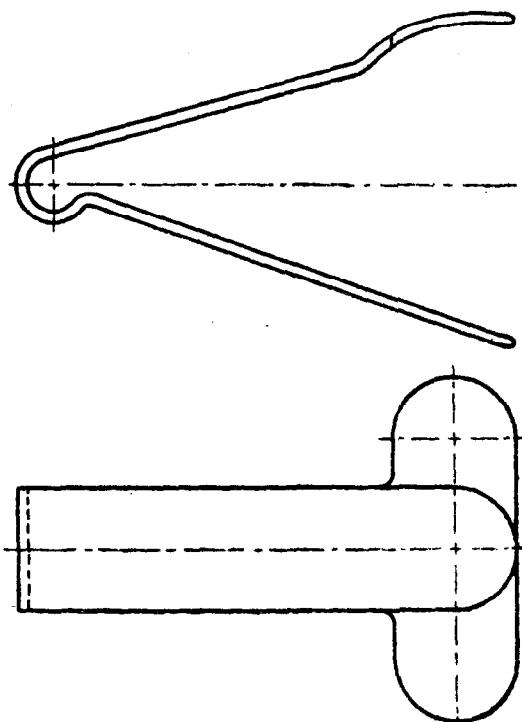


FIG. 4 DRAG SPRING

2.5 Eye

2.5.1 Material — It shall preferably be made of porcelain glazed inside or any other suitable material with smooth surface inside. The ends of the eye shall be rounded off.

2.5.2 Shape — A typical type of eye is shown in Fig. 5.

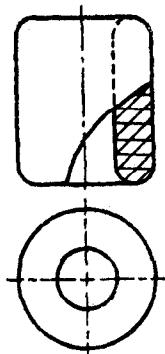


FIG. 5 EYE

2.6 Pin — Pins for cover and cover lock shall be made of 8 SWG steel wire. Other pins used in the shuttle may be made of steel wire of fine gauge or as agreed to between the buyer and the seller.

2.7 Bristles — Shall be of nylon monofilament.

3. Marking — Manufacturer's brand or trade-mark may be suitably marked on piece or on packet.

3.1 ISI Certification Marking — Details available from the Indian Standards Institution.